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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---------------------------|--------------|----------------------|-------------------------|------------------|
| 10/046,295 | 01/16/2002 | Karen Swider Lyons | 83,068 | 2321 |
| 75 | 07/28/2004 | • | EXAM | INER |
| Naval Research Laboratory | | | BOS, STEVEN J | |
| Code 1008.2 | | | ART UNIT | DARED NUR CORD |
| 4555 Overlook | | | AKTONII | PAPER NUMBER |
| Washington, D | C 20375-5320 | | 1754 | |
| | | | DATE MAILED: 07/28/2004 | 4 |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | | () | | | |
|---|--|--|---|-----|--|--|--|
| | | Application No. | Applicant(s) | | | | |
| Office Action Summary | | 10/046,295 | LYONS ET AL. | | | | |
| | | Examiner | Art Unit | | | | |
| | | Steven Bos | 1754 | | | | |
| Period fo | The MAILING DATE of this communication app or Reply | ears on the cover sheet with the c | orrespondence address | | | | |
| A SH THE - Exte after - If the - If NC - Failu Any | ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | nely filed s will be considered timely. the mailing date of this communicatio D (35 U.S.C. § 133). | On. | | | |
| Status | | | | | | | |
| 1) 又 | Responsive to communication(s) filed on 20 Ms | av 2004. | | | | | |
| · | | action is non-final. | | | | | |
| 3)□ | · | | | | | | |
| Disposit | ion of Claims | | | | | | |
| 5)⊠ 6)⊠ 7)⊠ | Claim(s) <u>1-7 and 9-11</u> is/are pending in the app 4a) Of the above claim(s) is/are withdraw Claim(s) <u>11</u> is/are allowed. Claim(s) <u>1 and 3</u> is/are rejected. Claim(s) <u>2,4-7,9 and 10</u> is/are objected to. Claim(s) are subject to restriction and/or | vn from consideration. | | | | | |
| Applicati | ion Papers | | | | | | |
| 9) | The specification is objected to by the Examine | r. | | | | | |
| 10) | The drawing(s) filed on is/are: a) ☐ acce | epted or b) objected to by the E | Examiner. | | | | |
| | Applicant may not request that any objection to the | drawing(s) be held in abeyance. See | 37 CFR 1.85(a). | | | | |
| 11) | Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex | | • | d). | | | |
| Priority ι | ınder 35 U.S.C. § 119 | | | | | | |
| a) | Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau See the attached detailed Office action for a list of | s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)). | on No ed in this National Stage | | | | |
| 2) Notic 3) Inforr | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | | | | | |

Application/Control Number: 10/046,295

Art Unit: 1754

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1,3 rejected under 35 U.S.C. 103(a) as being unpatentable over Nishihara '181.

Nishihara suggests that rust, which is iron oxide, forms on automobile steel sheets when left in humid air, ie. a gas mixture of O2 and H2O. See cols. 1,2. The examiner takes Official notice that the air in the southeastern United States is humid and that there are automobiles in this area that are exposed to humid air which will form rust, ie. iron oxide, that will be heated during the day and will be cooled at night. The length of daytime is at least 6 hours. This meets the instantly claimed positive process steps therefore the specific energy of the iron oxide will be increased.

Applicant's arguments filed May 20, 2004 have been fully considered but they are moot in view of the new grounds of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Bos whose telephone number is 571-272-1350. The examiner can normally be reached on M-F, 8AM-6PM but is on increased flexitime sch.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Bos

Primary Examiner

Art Unit 1754

sjb